

### **AMENDMENTS TO THE CLAIMS**

The following Listing of Claims replaces all previous listings of claims in this application.

#### **Listing of Claims:**

1. (Currently amended) An aqueous dispersion of a polymer obtained by free-radical polymerization of
  - a) at least one N-vinyl-containing monomer and/or at least one (meth)acrylamide monomer
  - b) at least one polymeric dispersant
  - c) at least one polymeric precipitation agent
  - d) at least one crosslinker
  - e) optionally further monomers
  - f) optionally at least one regulator
  - g) optionally a buffer substancewhere the weight ratio of b) to c) is in the range from 1:50 to 1:0.02, and where c) differs with regard to composition from the polymer obtained by free-radical polymerization.
2. (Original) A dispersion as claimed in claim 1, wherein the weight ratio of b) to c) is in the range from 1:20 to 1:0.05.
3. (Previously presented) A dispersion as claimed in claim 1, wherein  
N-vinylamides and/or  
N-vinyllactams and/or  
(meth)acrylamide monomers chosen from the group consisting of acrylamide,  
2-acrylamidoglycolic acid,  
N-(tris(hydroxymethyl)methyl)acrylamide,  
N-hydroxymethylacrylamide,  
N-methylacrylamide,  
N-isopropylacrylamide,

2-acrylamido-2-methyl-1-propanesulfonic acid  
methacrylamide,  
N-ethyl-methacrylamide,  
N-hydroxymethylmethacrylamide,  
N-(2-hydroxypropyl)methacrylamide,  
N-methylmethacrylamide,  
N-isobutoxymethylacrylamide,  
N-methoxymethylmethacrylamide  
are used as monomer a).

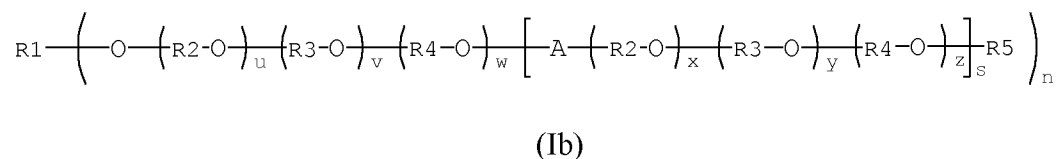
4. (Previously presented) A dispersion as claimed in claim 1, wherein monomer a) is chosen from the group consisting of acrylamide, methacrylamide, N-hydroxymethylacrylamide, N-(2-hydroxypropyl)methacrylamide, N-hydroxymethylmethacrylamide, N-isopropylacrylamide.

5. (Previously presented) A dispersion as claimed in claim 1, wherein the polymeric dispersant b) is chosen from the group consisting of polyvinyl acetate, polyalkylene glycols, in particular polyethylene glycols, polyvinyl alcohol, polyvinylpyridine, polyethyleneimine, polyvinylimidazole, polyvinylsuccinimide and polydiallyldimethylammonium chloride, polyvinylpyrrolidone, polymers which comprise at least 5% by weight of vinylpyrrolidone units, polymers which comprise at least 50% by weight of vinyl alcohol units, oligosaccharides, polysaccharides, oxidatively, hydrolytically or enzymatically degraded polysaccharides, chemically modified oligo-or polysaccharides, such as, in particular, carboxymethylcellulose, water-soluble starch and starch derivatives, starch esters, starch xanthanogenates, starch acetates, dextran, and mixtures thereof.

6. (Previously presented) A dispersion as claimed in claim 1, wherein polymers which comprise at least 5% by weight of vinylpyrrolidone units and/or polyvinylpyrrolidone are used as polymeric dispersant b).

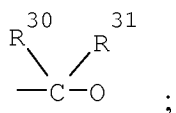
7. (Previously presented) A dispersion as claimed in claim 1, wherein a water-soluble polyether-containing compound is used as polymeric precipitation agent c).

8. (Previously presented) A dispersion as claimed in claim 1, wherein a water-soluble polyether-containing compound of the following formula (Ib) is used as polymeric precipitation agent c):



in which the variables, independently of one another, have the following meanings:

- $R^1$  is hydrogen,  $C_1$ - $C_{24}$ -alkyl,  $R^6$ -C(=O)-,  $R^6$ -NH-C(=O)-, polyalcohol radical;  
 $R^5$  is hydrogen,  $C_1$ - $C_{24}$ -alkyl,  $R^6$ -C(=O)-,  $R^6$ -NH-C(=O)-;  
 $R^2$  to  $R^4$  are  $-(CH_2)_2-$ ,  $-(CH_2)_3-$ ,  $-(CH_2)_4-$ ,  $-CH_2-CH(R^6)-$ ,  $-CH_2-CHOR^7-CH_2-$ ;  
 $R^6$  is  $C_1$ - $C_{24}$ -alkyl;  
 $R^7$  is hydrogen,  $C_1$ - $C_{24}$ -alkyl,  $R^6$ -C(=O)-,  $R^6$ -NH-C(=O)-;  
 A is  $-C(=O)-O$ ,  $-C(=O)-B-C(=O)-O$ ,  $-CH_2-CH(-OH)-B-CH(-OH)-CH_2-O$ ,  
 $-C(=O)-NH-B-NH-C(=O)-O$ ;



- B is  $-(CH_2)_t-$ , arylene, optionally substituted;  
 $R^{30}$ ,  $R^{31}$  are hydrogen,  $C_1$ - $C_{24}$ -alkyl,  $C_1$ - $C_{24}$ -hydroxyalkyl, benzyl or phenyl;  
 n is 1 when  $R^1$  is not a polyalcohol radical or  
 n is 1 to 1000 when  $R^1$  is a polyalcohol radical  
 s = 0 to 1000; t = 1 to 12; u = 1 to 5000; v = 0 to 5000; w = 0 to 5000; x = 0 to 5000;  
 y = 0 to 5000; z = 0 to 5000.

9. (Previously presented) A dispersion as claimed in claim 1, wherein polyalkylene glycols are used as polymeric precipitation agent c).

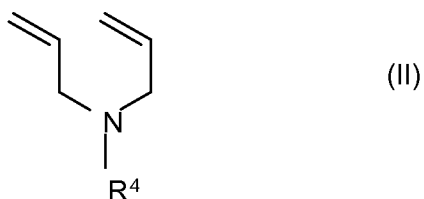
10. (Previously presented) A dispersion of claim 1, wherein polyethylene glycol (PEG) is used as polymeric precipitation agent c).

11. (Currently amended) A dispersion as claimed in claim 1, wherein a compound with a molecular weight of from 300 to 100 000 is used as polymeric precipitation agent c).

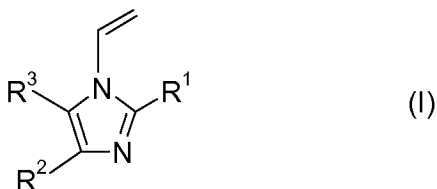
12. (Previously presented) A dispersion as claimed in claim 1, wherein the weight ratio of the sum of b) and c) to the sum of the remaining monomers is in the range from 10 : 1 to 1 : 0.1.

13. (Previously presented) A dispersion as claimed in claim 1, wherein a cationic and/or a quaternizable monomer is used as further monomer e).

14. (Original) A dispersion as claimed in claim 13, wherein a diallylamine of the formula (II), in which R<sup>4</sup> is C<sub>1</sub>-C<sub>24</sub>-alkyl is used as further monomer e)



15. (Original) A dispersion as claimed in claim 13, wherein an N-vinylimidazole derivative of the formula (I) in which R<sup>1</sup> to R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or phenyl is used as further monomer e).



16. (Previously presented) A dispersion as claimed in claim 1, wherein polymers which comprise at least 5% by weight of vinylpyrrolidone units and/or polyvinylpyrrolidone are used as polymeric dispersant b), and polyethylene glycol is used as precipitation agent c).

17. (Previously presented) An aqueous solution obtainable by diluting the dispersion as claimed in claim 1 with water.

18. (Withdrawn) A process for the preparation of aqueous dispersions where

- a) at least one N-vinyl-containing monomer and/or at least one (meth)acrylamide monomer
- b) at least one polymeric dispersant
- c) at least one precipitation agent
- d) at least one crosslinker
- e) optionally further monomers
- g) optionally a buffer substance

are reacted in the presence of at least one regulator f) and the weight ratio of b) to c) is in the range from 1:50 to 1:0.02.

19. (Withdrawn) A process as claimed in claim 18, wherein a multifunctional regulator is used as regulator f).

20. (Withdrawn) A process as claimed in claim 18, wherein the resulting dispersion is subjected to hydrolysis.

21. (Withdrawn) A process as claimed in claim 20, wherein the hydrolysis is carried out up to a content of amines in the polymer of < 20 mol%, based on component (a).

22. (Withdrawn) The use of aqueous dispersions as claimed in claim 1 in cosmetic preparations, in particular in hair cosmetic preparations.

23. (Withdrawn) The use of aqueous dispersions obtainable by free-radical polymerization of

a) at least one (meth)acrylamide monomer and optionally at least one N-vinyl-containing monomer

b) at least one polymeric dispersant

c) at least one polymeric precipitation agent

e) optionally further monomers

f) optionally at least one regulator

g) optionally in the presence of a buffer substance

where the weight ratio of b) to c) is in the range from 1:50 to 1:0.02 in cosmetic preparations, in particular in hair cosmetic preparations.

24. (Withdrawn) The use as claimed in claim 23, where the at least one monomer a) is as defined in claim 3.

25. (Withdrawn) The use as claimed in claim 23, where the polymeric dispersant b) and the polymeric precipitation reagent c) are as defined in claim 2.

26. (Withdrawn) The use as claimed in claim 23, where the further monomer e) is as defined in claim 13.

27. (Withdrawn) The use as claimed in as thickener claim 22.

28. (Withdrawn) The use as claimed in claim 22 as conditioning agent.

29. (Withdrawn) A method of increasing the viscosity of a preparation by adding an aqueous dispersion according to claim 1 or by adding an aqueous dispersion according to claim 23 to the preparation and the addition of water.

30. (Withdrawn) A method as claimed in claim 29, wherein at least 2 parts by weight of water, based on the dispersion, are added to the preparation.

31. (Withdrawn) A cosmetic composition comprising, in a cosmetically acceptable medium, at least one aqueous dispersion as claimed in claim 1.

32. (Withdrawn) A cosmetic composition comprising, in a cosmetically acceptable medium, at least one aqueous dispersion obtainable by free-radical polymerization of

- a) at least one (meth)acrylamide monomer and optionally at least one N-vinyl-containing monomer
- b) at least one polymeric dispersant
- c) at least one polymeric precipitation agent
- e) optionally further monomers
- f) optionally at least one regulator
- g) optionally in the presence of a buffer substance

where the weight ratio of b) to c) is in the range from 1:50 to 1:0.02 and where the at least one monomer a) is as defined in claim 3, the polymeric dispersant b) and the polymeric precipitation reagent c) are as defined in claim 2 and the further monomer e) is as defined in claim 13.